

UNITED STATES PARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
		31 de -				
			\neg	EXAMINER		
rai rajatas raitus				a application of		
FRANCISCO TELEVISIONE MARKESON LEF				ART UNIT	PAPER NUMBER	
	2011 of Maril Convertible			1.01	15	
				DATE MAILED:	14 - 120	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Applicatio	n No.	Applicant(s)					
	Office Action Summary	08/950,96	3	DREWES ET AL.					
	Omce Action Summary	Examiner		Art Unit					
		Jeffrey Li	undgren	1631					
Period fo	The MAILING DATE of this communic or Reply	cation appears on the c	over sheet with	the correspondence addres	SS				
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOMALLING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b)	CATION. of 37 CFR 1.136 (a). In no everunication. 0) days, a reply within the statutatutory period will apply and will will, by statute, cause the applic	ent, however, may a rep tory minimum of thirty (expire SIX (6) MONTH cation to become ABAN	oly be timely filed 30) days will be considered timely. 45 from the mailing date of this comm NDONED (35 U S.C. § 133).	nunication.				
1)	Responsive to communication(s) file	ed on <u>07 February 20</u>	<u>00</u> .						
2a) 🗌	This action is FINAL.	2b)⊠ This action is r	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 🖂	Claim(s) 1-50 is/are pending in the a	application.							
	4a) Of the above claim(s) <u>13-17 and</u>	35 is/are withdrawn from	om consideratio	n.					
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-12,18-34 and 36-50</u> is/are	e rejected.							
7)	Claim(s) is/are objected to.								
8)	Claims are subject to restrict	tion and/or election red	quirement.						
Applicati	on Papers								
9)[The specification is objected to by th	e Examiner.							
10)	The drawing(s) filed on is/are	objected to by the Exa	aminer.						
	The proposed drawing correction file			lisapproved.					
12)	The oath or declaration is objected to	by the Examiner.							
Priority u	ınder 35 U.S.C. § 119								
	Acknowledgment is made of a claim	for foreign priority und	der 35 U.S.C. δ 1	19(a)-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:	0 1 ,							
,-	1. Certified copies of the priority	documents have been	received.						
	2. Certified copies of the priority			olication No.					
	3. Copies of the certified copies of		• •		age				
* 9	application from the Interniee the attached detailed Office action	ational Bureau (PCT F	Rule 17.2(a)).		Ū				
	Acknowledgement is made of a claim		•						
,	, is with the made of a claim	rrior democate phoney	411401 00 0.0.0	3 1 10(0).					
Attachment	(s)								
16) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449) F	PTO-948)		ummary (PTO-413) Paper No(s) formal Patent Application (PTO-					

Page 2

Application/Control Number: 08/950,963

Art Unit: 1631

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. Claims 18, 19, and 23, are rejected under 35 U.S.C. 102(b) as being anticipated by Brecht *et al.* (Anal. Chim. Acta *311*, 289-299, **1999**) for the reasons made of record in the Office action mailed on September 3, 1999 (paper **N**o. 7).

Applicants argue that Brecht does not teach all of the limitations. This is not found persuasive for the reasons below.

Brecht teaches a device wherein the sample traverses the analyte receptive layer by laminar flow (see page 292; *Setup*), wherein laminar flow occurs "across the surface/support of the device", which is how Applicants' limitation "through the layers" is interpreted for the reasons described in the rejection below under 35 U.S.C. § 112, second paragraph.

The instant rejection is withdrawn from claims 1-12, 20-22, 24-34, and 36-50, for reasons other than those argued by Applicants. Specifically, the device of Brecht does not teach channels (such as in more than one channel), but only a single channel.

2. The rejection of claims 3-6, 9, 21, 22, 25, and 26, under 35 U.S.C. 102(b) as being anticipated by Kline et al. (U.S. Patent No. 5,459,078, October 17, 1995) in the Office Action mailed on September 3, 1999, are withdrawn in view of the arguments presented by Applicants during the telephone interview between Applicants and the Examiner on October 13, 2000, and the arguments presented in the response received on February 7, 2000.

Claim Rejections - 35 USC § 103

- 3. The rejection of claim 7 under 35 U.S.C. 103(a) as being unpatentable over Brecht et al. (Analitica Chimica Acta *311*, 289-299 **1995**), in view of Goddard et al. (Analyst *119*, 583-588, **1994**), is withdrawn for the reasons above in paragraph 1.
- 4. The rejection of claims 8, 10-12, 27-34, and 37, under 35 U.S.C. 103(a) as being unpatentable over Brecht et al., in view of Goddard et al. as applied to claim 7 above,

Application/Control Number: 08/950,963

Art Unit: 1631

and further in view of Beuchler et al. (U.S. Patent No. 5,458,852, October 17, 1995) in view of Finlan (U.S. Patent No. 5,055,265, October 8, 1991), is withdrawn for the reasons above in paragraph 1.

5. The rejection of claims 38-50, under 35 U.S.C. 103(a) as being unpatentable over Brecht et al. (Anal. Chim. Acta *311*, 289-299, **1999**) in view of Goddard et al. (Analyst *119*, 583-588, **1994**) in light of Kimock et al. (U.S. Patent No. 5,637,353, June 10, 1997), is withdrawn for the reasons above in paragraph 1.

New Grounds of Rejection Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-12, 18-34, and 36-50 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-12, 18-34, and 36-50, are indefinite for reciting the phrase "through layers of the device" in the context of the claimed limitations, because the skilled artisan could not determine the metes and bounds of the claim by two different interpretations. Although the phrase "through layers of the device" is defined in the specification on page 11, the phrase is indefinite in the context of a device which has laminar flow. The claim phraseology is defined by "flow of the sample through the layers from the surface of the device toward the support and flow across the surface of any layer of the device", such as a perpendicular flow with respect to the plane of the device. However, since the invention is drawn to a device for providing laminar flow, it is unclear how the flow pattern is directed "through layers", such as from the surface toward the support (i.e.,

Page 4

Application/Control Number: 08/950,963

Art Unit: 1631

perpendicular flow), because laminar flow occurs when a stream of fluid moves like a plurality of laminae or sheets <u>parallel</u> to the surface, not *perpendicular* to the surface. Applicants' flow *away from* or *towards* the surface (or any given support/substrate) contradicts the definition of laminar flow. Applicants are referred to Burstein *et al.* (U.S. Patent No. 4,685,534, August 11, 1987; see column 9:20-25), Dobak, III *et al.* (U.S. Patent No. 6,096,068, August 1, 2000; see column 8:10-22).

Claims 1-12, 18-22, and 36-50, recites the limitation "through *the layers*" in region between the support and the optically functional layer. However, in this region there is only a single layer in this region (i.e., the optically functional layer), and it is not clear which other layers Applicants are claiming, therefore, there is insufficient antecedent basis for this limitation in the claim.

Claims 23-34 recites the limitation "said layers", in region between the support and the optically functional layer. However, in this region there is only a single layer in this region (i.e., the optically functional layer), and it is not clear which other layers Applicants are claiming, therefore, there is insufficient antecedent basis for this limitation in the claim.

Conclusion

- 8. No claims are allowable.
- 9. Any inquiries concerning the *merits* of this communication or earlier communications from the Examiner should be directed to Jeffrey S. Lundgren, whose telephone number is (703) 306-3221. The Examiner can normally be reached on Monday-Friday from 7:00 AM to 5:00 PM (EST).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Michael Woodward, can be reached at (703) 308-4426.

Any inquiries of a *general* nature relating to this application should be directed to Ms. Pauline Farrier, Patent Analyst for Art Unit 1631, whose telephone number is (703) 305-3550.

Application/Control Number: 08/950,963

Art Unit: 1631

Papers related to this application may be submitted by facsimile transmission. Papers should be faxed to Group 1631 using (703) 308-0294. Please notify the Examiner of incoming facsimiles prior to sending papers to the aforementioned fax number. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG (November 15, 1989).

Jeffrey S. Lundgren, Ph.D.

JOHN S. BRUSCA, PH.L. PRIMARY EXAMINER